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Amendments to the Claims

Please cancel Claims 1, 3, 5, 6, 11, 14, 16, 18, 19, 24 and 27. Please amend Claims 2, 4, 7, 8, 12, 15, 17, 20, 21 and 25. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1. (Cancelled)
2. (Amended) A power converter as claimed in claim 13 wherein the controlled rectifiers are ~~rectifier is~~ caused to be off during a portion of each cycle when the duty cycle is reduced.
3. (Cancelled)
4. (Amended) A power converter as claimed in claim 13 wherein the duty cycle is reduced to limit current.
5. (Cancelled)
6. (Cancelled)
7. (Amended) A power converter as claimed in claim 13 wherein the secondary winding circuit comprises plural secondary transformer windings.
8. (Amended) A power converter as claimed in claim 13 wherein the primary winding circuit includes a single primary winding and the secondary winding circuit includes two secondary windings coupled to the single primary winding.
9. (Original) A power converter as claimed in claim 8 wherein the primary winding is in a full bridge circuit.

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10. (Original) A power converter as claimed in claim 9, further comprising a capacitor in series with the primary winding.
11. (Canceled)
12. (Amended) A power converter as claimed in claim 13 wherein the converter provides no regulation during normal operation.
13. (Original) A power converter comprising:
 - a primary winding circuit;
 - a secondary winding circuit coupled to the primary winding circuit, a secondary winding circuit comprising a secondary transformer winding in series with a controlled rectifier having a parallel uncontrolled rectifier; and
 - a control circuit which controls duty cycle of the primary winding circuit, the duty cycle being reduced as a function of sensed current, the control circuit comparing the duty cycle to a threshold and shutting down operation when the duty cycle drops below the threshold.
14. (Cancelled)
15. (Amended) A method as claimed in claim 14 wherein the controlled rectifiers are caused to be off during a portion of each cycle when the duty cycle is reduced.
16. (Cancelled)
17. (Amended) A method as claimed in claim 14 wherein the duty cycle is reduced to limit current.
18. (Cancelled)
19. (Cancelled)
20. (Amended) A method as claimed in claim 14 wherein the power is applied to plural secondary windings.

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21. (Amended) A method as claimed in claim ~~14~~ 26 wherein power is applied through a single primary winding and two secondary windings coupled to the single primary winding.
22. (Original) A method as claimed in claim 21 wherein the primary winding is in a full-bridge circuit.
23. (Original) A method as claimed in claim 22 wherein a capacitor is in series with the primary winding.
24. (Cancelled)
25. (Amended) A method as claimed in claim ~~14~~ 26 wherein the converter provides no regulation during normal operation.
26. (Original) A method of converting power comprising:
 - providing power to primary and secondary transformer windings, there being a controlled rectifier having a parallel uncontrolled rectifier in series with the secondary transformer winding;
 - controlling duty cycle of the power to the primary winding, the duty cycle being reduced as a function of sensed current; and
 - comparing the duty cycle to a threshold and shutting down operation when the duty cycle drops below the threshold.
27. (Cancelled)
28. (Original) A power converter comprising:
 - primary and secondary transformer windings, there being a controlled rectifier having a parallel uncontrolled rectifier in series with the secondary transformer winding;
 - means for controlling duty cycle of the power to the primary winding, the duty cycle being reduced as a function of sensed current; and

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means for comparing the duty cycle to a threshold and shutting down operation when the duty cycle drops below the threshold.